

II. CLAIM AMENDMENTS

1. (Currently Amended) A telecommunications system which comprises an office network and an operator network and a local area network between them, wherein the office network comprises:

at least one mobile system terminal,

a base transceiver station,

a radio access gateway controlling the base transceiver station and adapted to have a functional connection with the local area network and configured to adapt the data transmission protocols of said mobile system and local area network to each other,

a call control entity, which is configured to control said radio access gateway through a signalling connection and arranged to detect the establishment of an internal data connection in the office network, which data connection uses a data GSM protocol according to said mobile system;

an data call interworking function to which a signalling connection from said call control entity is arranged and which data call interworking function is configured to adapt GSM data connections according to the data protocol of at least said mobile system and coming from the radio access gateway to the data protocol according to said office network, in response to the call control entity detecting the establishment of an internal GSM data connection in the office network, at least the second party of the data connection being a said mobile system GSM terminal, the data call interworking function being further configured to and route the GSM data connections to their destination address in the office network; and

the operator network is configured to adapt data transmission between the office network and a public land mobile network together.

2. (Currently Amended) A telecommunications system as claimed in claim 1, further comprising:

a location database for registering terminals belonging to the office network and for managing location and subscriber information,

and in response to a data connection establishment request made by the terminal, the call control entity is configured to authenticate the subscriber of the terminal and alternatively

to direct the radio access gateway to route the data connection to said data call interworking function in response to said subscriber of the terminal being registered into the office network, or

to direct the radio access gateway to route the data connection through the operator network to a switching centre of the public land mobile network in response to the fact that the subscriber of the terminal is not registered into the office network.

3. (Currently Amended) A telecommunications system as claimed in claim 1, wherein

said office-specific base transceiver station, radio access gateway and data call interworking function are implemented as one element of the telecommunications system.

4. (Currently Amended) A telecommunications system as claimed in claim 1, wherein

said radio access gateway and data call interworking function are implemented as one element of the

telecommunications system in such a manner that the element is configured to control one or more office-specific base transceiver stations.

5. (Currently Amended) A telecommunications system as claimed in claim 1, wherein

said office-specific base transceiver station, radio access gateway and data call interworking function are implemented as separate elements of the telecommunication system in such a manner that the radio access gateway is configured to control one or more office-specific base transceiver stations.

6. (Currently Amended) A telecommunications system as claimed in claim 1, wherein

~~said data protocol according the mobile system is a GSM protocol~~ and said data protocol of the office network is a H.323 protocol, and

the radio access gateway is configured to adapt data frames according to the GSM protocol in the user data into RTP frames and

the data call interworking function is configured to disassemble said RTP frames and to adapt the user data into frames according to the data protocol of the office network.

7. (Currently Amended) A telecommunications system as claimed in claim 1, wherein

a remote access server is configured to function as an interface between the office network and the local area network, and the data call interworking function is configured to transmit user data adapted to frames according to the data protocol of the office network to the remote access network.

8. (Original) A telecommunications system as claimed in claim 7, wherein

a terminal registered into the office network is configured to establish a data connection to said remote access server from outside said office network as a dial-up connection.

9. (Original) A telecommunications system as claimed in claim 7, wherein

a terminal registered into the office network is configured to establish a data connection to said remote access server from outside said office network as a virtual private network (VPN) connection.

10. (Currently Amended) A method of establishing a data connection in a telecommunications system which comprises an office network and an operator network and a local area network between them, the office network comprising at least one mobile system terminal, a base transceiver station, a radio access gateway controlling the base transceiver station and adapted to have a functional connection with the local area network, a call control entity, an data call interworking function to which a signalling connection from said call control entity is arranged, the method comprising:

controlling said radio access gateway by the call control entity through a signalling connection,

detecting the establishment of an internal data connection in the office network by said call control entity, which data connection uses a GSM data protocol ~~according to said mobile system,~~

adapting data connections according to the GSM data protocol ~~of at least said mobile system and~~ coming from the radio access gateway ~~are adapted~~ to the data protocol according

to said office network, in response to the fact that the call control entity detects the establishment of an internal GSM data connection in the office network, at least the second party of the data connection being ~~said mobile system~~ a GSM terminal, and adapting the data transmission between the office network and a public land mobile network together in said operator network.

11. (Currently Amended) A method as claimed in claim 10, wherein

the telecommunications system comprises a location database for registering terminals belonging to the office network and for managing location and subscriber information, and the method further comprising:

authenticating the subscriber of the terminal in the call control entity in response to the data connection establishment request made by the terminal, and alternatively

directing the radio access gateway to route the data connection to said data call interworking function in response to the fact that said subscriber of the terminal is registered into the office network, or

directing the radio access gateway to route the data connection through the operator network to a switching centre of the public land mobile network in response to the fact that the subscriber of the terminal is not registered into the office network.